

Claim or Claims

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I claim that “pharmacology an Manufacturing Method of bombyx moriL related bioproduct” is my invention.

My invention adopts Bombyx moriL as main component as well as other natural medicinal materials including: Bombyx moriL 56%;Rhizoma corydal 6.5%;Fructus Schisandae 5.5%;Herba Epimedii 4.4%;Cortex Cinnamomi 2.2%;Tritonellia Gyaesin 3.5%;Semen Cuscutae 2.0%;Semen Allii Tuberosi 2.2%;Fructus Foeniculi 1.1%;Herba Cistanchis 1.1%;Common Panaxoside Ginseng 6.5%;Radix Achyranthis Bidentatae 4.4%;Rhizoma Curculiginis 3.5%;Fructus Cnidii 1.1%. The process flow can be described as “mixing 100 kg Bombyx moriL with 200 kg 65% ethanol; soaking at 25°C for 30 days; homogenizing and soaking at 25°C for another 60 days; collecting supernatant and concentrating with reduced pressure at 85°C; keeping for the spray-drying; mixing 100 kg medicinal plant material with 300 kg, 200 kg and 100 kg respectively; reflux extraction at 85°C and collecting all the filtrates; concentrating and collecting the ethanol supernatant; absorbing via WLD resin affinity column; eluting by 65% ethanol; spray-drying the elution as well as the supernatant of Bombyx moriL; and gas chromatography to ensure the quality.

I believe that the pharmacological experiments suggest my product can inhibit PED₅ enzyme, increase cGMP concentration in both the cavernous body and blood as well as the NO concentration. Furthermore, the color Doppler test for maximum and average blood flow also proves the conclusion. It is sure that my product is good for the treatment and prevention of disease.